

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
806	960022	8 EACH	12 IN., 1-WAY, 3-SECTION (R,Y,G) SIGNAL HEAD MAST ARM MOUNT
806	960028	1 EACH	12 IN., 1-WAY, 5-SECTION (R,Y,G,YA,GA) SIGNAL HEAD MAST ARM MOUNT
806	960027	1 EACH	12 IN. 8 IN., 1-WAY, 5-SECTION (R,Y,G,YA,GA) SIGNAL HEAD MAST ARM MOUNT
816	971017	1 EACH	EIGHT PHASE, FULLY-ACTUATED TRAFFIC SIGNAL CONTROLLER IN A NEMA SIZE "6" POLE MOUNTED SYSTEM READY CABINET.
816	963007	3 EACH	FOUR CHANNEL LOOP DETECTOR AMPLIFIERS (DELAY OUTPUT)
813	973023	150 S.F.	SHEET ALUMINUM SIGNS
			- 1 EACH R3-6 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT" MAST ARM MOUNT
			- 1 EACH R3-5R SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - RIGHT ONLY" MAST ARM MOUNT
			- 4 EACH D3-2 SIGN (VARIABLE x 16 IN.) - (ADVANCE STREET NAME PANEL) MAST ARM MOUNT
			- 1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30 IN. x 51 IN.) POLE MOUNT: M3-3 SIGN (24 IN. x 12 IN.) "SOUTH" (FOR INDEPENDENT USE) M1-5 SIGN (30 IN. x 24 IN.) "MARYLAND 197" (FOR INDEPENDENT USE) M6-1 SIGN (21 IN. x 15 IN.) "DIRECTIONAL ARROW- HORIZONTAL"
			- 1 EACH R10-12 SIGN (36 IN. x 42 IN.) - "LEFT TURN YIELD ON GREEN O" MAST ARM MOUNT
			- 1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30 IN. x 51 IN.) POLE MOUNT: M3-1 SIGN (24 IN. x 12 IN.) "NORTH" (FOR INDEPENDENT USE) M1-5 SIGN (30 IN. x 24 IN.) "MARYLAND 197" (FOR INDEPENDENT USE) M6-1 SIGN (21 IN. x 15 IN.) "DIRECTIONAL ARROW- HORIZONTAL"
			- 1 EACH R3-3(2) SIGN (30 IN. x 30 IN.) "LANE USE CONTROL - NO LEFT OR U TURN" MAST ARM MOUNT
			- 1 EACH R5-1 SIGN (30 IN. X 30 IN.) "DO NOT ENTER" MAST ARM MOUNT
			- 1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (48 IN. x 75 IN.) POLE MOUNT: M3-1 SIGN (30 IN. x 15 IN.) "NORTH" (FOR INDEPENDENT USE) M1-5 SIGN (48 IN. x 36 IN.) "MARYLAND 197" (FOR INDEPENDENT USE) M6-1 SIGN (30 IN. x 24 IN.) "DIRECTIONAL ARROW- HORIZONTAL"
			- 1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (48 IN. x 75 IN.) POLE MOUNT: M3-3 SIGN (30 IN. x 15 IN.) "SOUTH" (FOR INDEPENDENT USE) M1-5 SIGN (48 IN. x 36 IN.) "MARYLAND 197" (FOR INDEPENDENT USE) M6-1 SIGN (30 IN. x 24 IN.) "DIRECTIONAL ARROW- HORIZONTAL"
			- 1 EACH R3-2R SIGN (30 IN. x 30 IN.) "TURN PROHIBITION - NO RIGHT TURN" MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	4 C.Y.	TEST PIT EXCAVATION
801	801004	11 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	3 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	805160	35 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
806	831010	2 EACH	FURNISH AND INSTALL 250 WATT H.P.S. LAMP AND LUMINAIRE
807	807205	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
810	802501	330 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861104	2850 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
810	861107	110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
810	861116	390 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)
810	862101	2700 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
811	811001	11 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813	800000	150 S.F.	INSTALL OVERHEAD SIGN
815	862102	780 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
816	871201	1 EACH	INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED
—	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
—	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
810	861108	1260 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
815	800000	1 EACH	FURNISH AND INSTALL 27" STEEL POLE WITH TWIN 50 AND 70 FT. MAST ARMS.
815	800000	1 EACH	FURNISH AND INSTALL 27" STEEL POLE WITH TWIN 50 AND 60 FT. MAST ARMS.
805	805011	40 L.F.	FURNISH AND INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.
818	866103	1 EACH	FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE.
818	800000	1 EACH	FURNISH AND INSTALL 25 FOOT LIGHTING ARM ON SIGNAL STRUCTURE.
805	800000	10 L.F.	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
805	800000	630 L.F.	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
805	805150	55 L.F.	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
805	800000	20 L.F.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
—	500000	175 L.F.	FURNISH AND INSTALL 24" WHITE HEAT APPLIED PREFORMED PAVEMENT MARKINGS (STOP LINE).
—	800000	L.S.	DELIVERY OF SALVAGED MATERIALS
805	805118	177 L.F.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE
HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER AND CABINET.
NOTES:	
1.	THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
2.	ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION DETAILS

- A. INSTALL 27" STEEL POLE WITH TWIN 50" AND 70" MAST ARMS, 20' LIGHTING ARM
AND LUMINAIRE, TRAFFIC SIGNAL HEADS, AND SIGNS. (NOTE: 2-3" AND 1-2" PVC 90
DEGREE ANGLE CONDUIT BENDS.)
- B. INSTALL 27" STEEL POLE WITH TWIN 50" AND 60" MAST ARMS, 25' LIGHTING ARM
AND LUMINAIRE, TRAFFIC SIGNAL HEADS, AND SIGNS. (NOTE: 1-3" PVC 90 DEGREE ANGLE
CONDUIT BEND.)
- C. INSTALL HANDHOLE.
- D. INSTALL NEMA SIZE 6" CABINET (NOTE: 2-4" AND 2-2" 90 DEGREE ANGLE
CONDUIT BENDS.)
- E. INSTALL 1" FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE.)
- F. INSTALL 6' x 6' LOOP DETECTOR, (4 TURNS) ENCASED IN 1/4" FLEXIBLE TUBING.
- G. INSTALL 6' x 30' LOOP DETECTOR, (3,6,3, TURNS) ENCASED IN 1/4" FLEXIBLE TUBING,
QUADRUPOLE TYPE.
- H. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- I. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - SLOTTED.
- K. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.
- M. USE EXISTING HANDHOLE.
- N. PROPOSED OVERHEAD SERVICE.
- O. FURNISH AND INSTALL 24' WHITE REFLECTIVE HEAT APPLIED PREFORMED PAVEMENT
MARKING (STOP LINE).
- P. REMOVE EXISTING WOOD POLE, WITH GUYS, LUMINAIRE AND ARM, SIGNAL HEADS
AND SIGNS.
- Q. REMOVE EXISTING CABINET.
- R. REMOVE EXISTING HANDHOLE.
- S. INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- T. REMOVE MICRO LOOP PROBE SET
- U. REMOVE EXISTING WOOD POLE, WITH BACK GUYS, SIGNAL HEADS, AND SIGN.
- V. ABANDON LOOP DETECTOR

FINAL SIGNAL PLAN

ADDENDUM
SS-26



**RUMMEL, KLEPPER
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REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
February, 1999 Reconstruct Due To New Geometrics. SHA No.: N/A	DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

LOG MILE # 16019711.69

DRAWN BY: SMH
DES. BY: SMH/DLA
CHK. BY: BJH

MD 197 AT SNOWDEN RD/RAMP C-1
SIGNAL PLAN

COUNTY: PRINCE GEORGE'S

DATE: FEBRUARY, 1999 F.A.P. NO. SEE TITLE SHEET
SCALE: N/A S.H.A. NO. N/A

TS/STD. NO.: 3582B-G12 SHEET NO. 126P OF 367